



शिवाजी कॉलेज
(दिल्ली विश्वविद्यालय)
Shivaji College
(University of Delhi)

NAAC ACCREDITED "A" GRADE COLLEGE



Journal Club Activities

MINUTES OF MEETING OF JOURNAL CLUB

A meeting of students of B.Sc. (H) Zoology Semester 6 students on January 31st, 2024 at 11am to discuss a research paper on 'In-vitro fertilization':

Chloe, J. & Shanks, L.A. 2024. In Vitro Fertilization. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing. [https://www.ncbi.nlm.nih.gov/books/NBK562266/]

There was a detailed discussion about the technique including facts about the latest numbers of live births rates per intended egg retrieval by age group. This activity revolves around the etiology, evaluation, and the role of the interprofessional team in management strategies for IVF. The activity was mentored by Ms. Nimita Kant & Dr. Ankita Dua.

Paper discussed:

The screenshot displays the StatPearls website interface. At the top, the NIH logo and 'National Library of Medicine' text are visible. Below the header, a search bar and navigation links like 'Browse Titles' and 'Advanced' are present. The main content area features the article title 'In Vitro Fertilization' by Jennifer Choe and Anthony L. Shanks. It includes a 'Continuing Education Activity' section with a paragraph about IVF and a list of objectives: 'Describe the pathophysiology of infertility', 'Review the indications/contraindications for IVF', and 'Review the complications of IVF'. A sidebar on the right contains links for 'Views', 'PubReader', 'Print View', and 'Cite this Page', along with a table of contents for the article.

StatPearls [Internet].
Show details
Search this book

In Vitro Fertilization
Jennifer Choe; Anthony L. Shanks.
Author Information and Affiliations
Last Update: September 4, 2023.

Continuing Education Activity
Go to: []

In vitro fertilization (IVF) is the most common form of assisted reproductive technology and is used in the management of patients with difficulty undergoing conception. This activity revolves around the etiology, evaluation, and the role of the interprofessional team in management strategies for IVF.

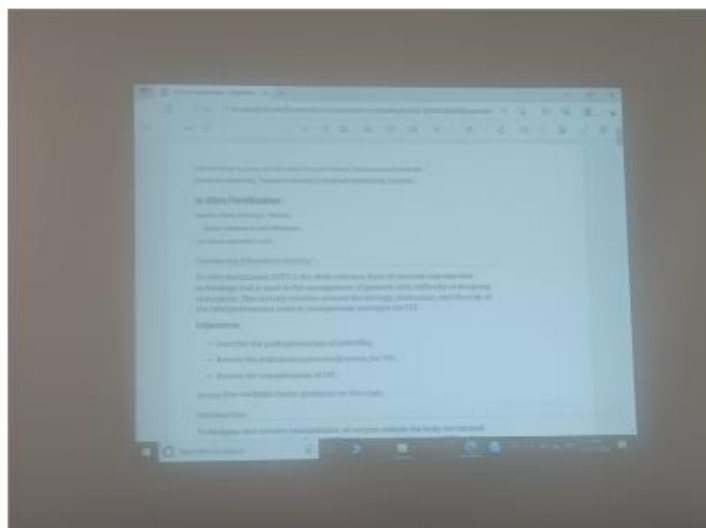
Objectives:

- Describe the pathophysiology of infertility.
- Review the indications/contraindications for IVF.
- Review the complications of IVF.

[Access free multiple choice questions on this topic.](#)

Views
PubReader
Print View
Cite this Page

In this Page
Continuing Education Activity
Introduction
Anatomy and Physiology
Indications
Contraindications
Equipment
Personnel
Preparation
Technique or Treatment
Complications
Clinical Significance
Enhancing Healthcare Team Outcomes



The following students attended the discussion:

Hritika Shree

Devansh

Supriya Bhardwaj

Rahul Sharma

Kamal

Lakshay Bhardwaj

Swati

Himanshu Kaushik

Harshita Gupta



mimika kaur
Ankita

A session of Journal Club was held on 29.11.2023 in Chemistry Lab 2 at 2:00 pm.

The following students attended:

Course: B.Sc (P) Life Science Semester V

Name of the Student	Roll No.	Signature
Harsh	21/23029	Harsh
Nainesh	21/23077	Nainesh
Mehul Verma	21/23048	Mehul
Shruti Mishra	21/23087	Shruti
Varjali Singh	21/23030	Varjali
Tyoti Sharma	21/23020	Tyoti
Nishat	21/23112	Nishat
Erin Tyagi	21/23062	Erin
Susmita	21/23063	Susmita
Yanshi	21/23006	Yanshi
Priya	21/23036	Priya
Rohit	21/23060	Rohit
Shailesh	21/23030	Shailesh
Armaan	21/23022	Armaan
Jafin Jindal	21/23114	Jafin
Aditee Pathak	21/23028	Aditee
Yashika Chauhan	21/23024	Yashika Chauhan
Harshita Raikumar	21/23086	Harshita
Namrata Prasad	21/23055	Namrata
Apoorva Sharma	21/23040	Apoorva
Soumya Kishwaha	21/23013	Soumya
Gungun Garg	21/23034	Gungun
Brijesh	21/23021	Brijesh
Jatin	21/23041	Jatin

Name of the Student	Roll Number	Signature
Pragati Singh.	21/23105	<u>Pragati</u>
Anshik Datta	21/23099	<u>Anshik</u>
Simran	21/23065	<u>Simran</u>
Utpalsh	21/23096	<u>Utpalsh</u>
Khushi Kumari	21/23053	<u>Khushi</u>
Prema	21/23015	<u>Prema</u>

Teacher's involved: Dr. P. K. Sahu
 Dr. Richa Arora RA
 Dr. Pallavi Agarwal Pallavi

No. of students present = 30

Journal covered: Indian Journal of Experimental Biology

The students read research papers from the journal mentioned above & present them & discussed them with the rest of the class. Some of the students prepared notes as well.



GPS Map Camera



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Note : Captured by GPS Map Camera



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Left \rightarrow Inhibitor \rightarrow α -amylase

Exs treatment vascular reactivity changes on
STZ-induced diabetic rat aorta.

Control (w/o Diabetes) Exs-treated Diabetic Exs-treated

Salivary amylase

Swinhoa (Pest) \rightarrow huge loss to agricultural productivity
(herbivorous)

\downarrow
Salivary amylase (Starch digestion)

Steps

management of Pest \rightarrow by Enzyme (amylase) inhibition

Isolation & Purification of amylase \rightarrow by G-100 column chromatography & biochemically characterized

Purified enzyme \rightarrow α -amylase activity (pH \rightarrow 6.0-7.0 having optimum Temp \rightarrow 40°C)
consists of Enzyme (Thermally stable upto \rightarrow 70°C)

(Preferred substrate \rightarrow Starch)
(Lineweaver-Burk - fractional velocity & combination plot) graph

By plotting \rightarrow K_m (Michaelis const) & V_{max} (max velocity) of
Graph amylase for starch came out to be \rightarrow 0.49 mg/mL & 1.67 n mole

Potent inhibitors \rightarrow $ZnCl_2$, $Cd(NO_3)_2$, salicylic acid, citric acid, oxalic acid
of α -amylase activity found

Topic \rightarrow Salivary amylase from Swinhoa - Characterization & mode of inhibition through analysis of double reciprocal, fractional velocity & combination plots

Good Write

Good Write



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Bacterial strains

↓
pre cultured
Mucor Hinton
(Broth medium)

Fungi

↓
pre.
RPMI 1640
(Br. medium)

Antioxidant potential
DNA

① Antimicrobial activity → bacteria → normal impact
→ fungi → higher

Antioxidant ↑↑
oxidant ↓↓

② Phenolic → gallic acid
cinnamic acid
chlorogenic acid

High — HPLC
Performance through
liquid
Chromatography

Good Write



GPS Map Camera

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Note : Captured by GPS Map Camera

Problem

Topic → Antidiabetic & antioxidant pot. of
D. Zibethinus leaves ethanolic extract.
Durio

Durio zibethinus → Durian

↓
known for rich medicinal uses

⇒ antioxidant & antidiab. pot. of ethanolic extract of DZ leaves
(DRL)

DRL → preliminary exam.

↓
quant. analysis of phenolic + flavonoids.

antioxidant properties evaluated by methods
DPPH → ABTS

antidiab. → α -amylase
+ α -glucosidase enzyme
inhibition studies

exp. on fasting blood of normoglycemic rats.

presence of polyphenols → resp for antiox
antidiab.



GPS Map Camera



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